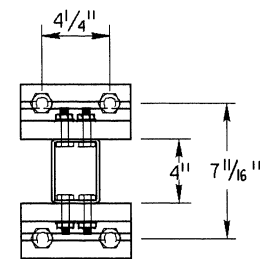
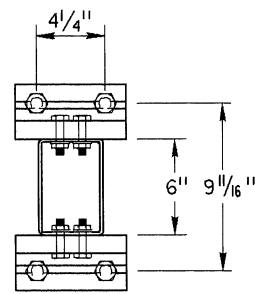


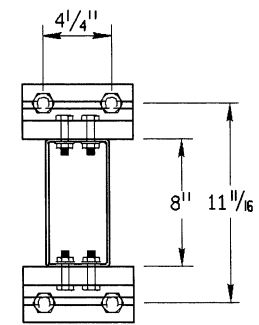
TYPICAL TOP VIEW



B-2 POST
4" x 3" x 3/16"
RECTANGULAR TUBE
WEIGHT = 8.15 LB/FT



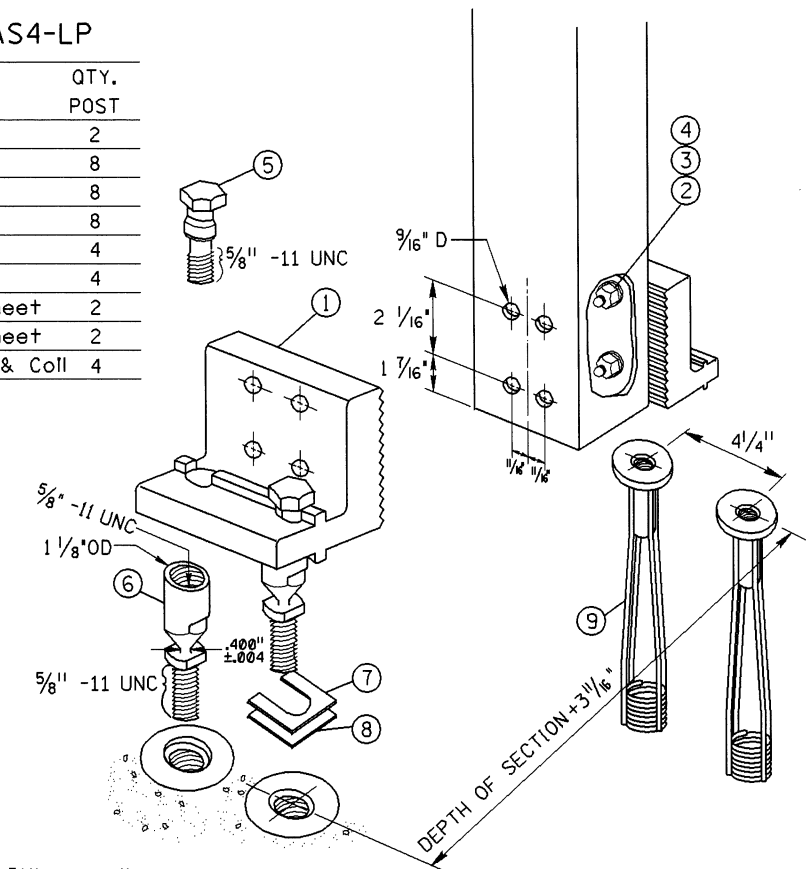
B-3 POST
6" x 4" x 3/16"
RECTANGULAR TUBE
WEIGHT = 11.97 LB/FT



B-4 POST
8" x 4" x 3/16"
RECTANGULAR TUBE
WEIGHT = 14.53 LB/FT

BREAKSAFE BASE ASSEMBLY TYPE AS4-LP

ITEM	DESCRIPTION	QTY. POST
① Bracket	Alum.	2
② Bolt	1/2"-13 UNC x 2-1/4", Hex.Hd..	8
③ Lockwasher	1/2" galvanized	8
④ Nut	Hex 1/2" -13 UNC	8
⑤ Special Bolt	5/8"-11 UNC	4
⑥ Coupling	Small 5/8"-11 UNC 2A & 2B.	4
⑦ Shim	Horseshoe, 18 Gauge Galv.Steel Sheet	2
⑧ Shim	Horseshoe, 14 Gauge Galv.Steel Sheet	2
⑨ Anchor	Stainless Steel Ferrule, Steel Rod & Coll	4



NOTES:

- SEE SIGNING ERECTION SPECIFICATIONS FOR DIMENSIONS OF EACH SIGN INSTALLATION.
- ANCHOR TEMPLATES SHOULD BE DESIGNED SO THE ANCHORS ARE HELD SOLID AND LEVEL. AN ACCURACY OF 1/16" IS REQUIRED.
- NO PART OF THE FOUNDATION OR NON-BREAKAWAY PART OF THE BASE SHOULD PROTRUDE MORE THAN 2" ABOVE THE GROUND SURFACE.
- FOUNDATION REBAR CAGES MAY BE WELDED IF THE REBAR CONFORMS TO ASTM A706/A706M AND ALL WELDING CONFORMS TO ANSI/AWS D1.4 (STRUCTURAL WELDING CODE - REINFORCING STEEL).
- CONCRETE FOUNDATIONS SHALL CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY LOADING IS APPLIED.

INSTALLATION NOTES

WRENCH SIZES REQUIRED: 5/8", 7/8", 1-1/16".

BRACKET ASSEMBLY

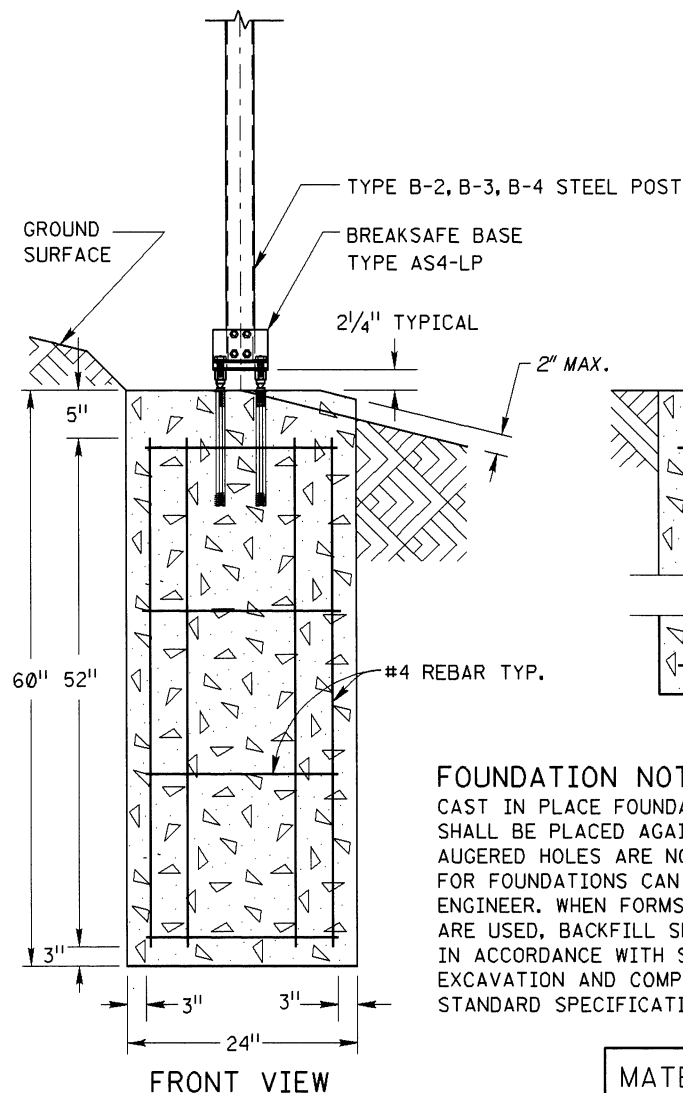
ASSEMBLE BRACKETS TO POSTS WITH BOLTS PROVIDED. SQUARE AND TIGHTEN. (ITEMS ① ② ③ AND ④.) MAKE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES.

ANCHOR ASSEMBLY

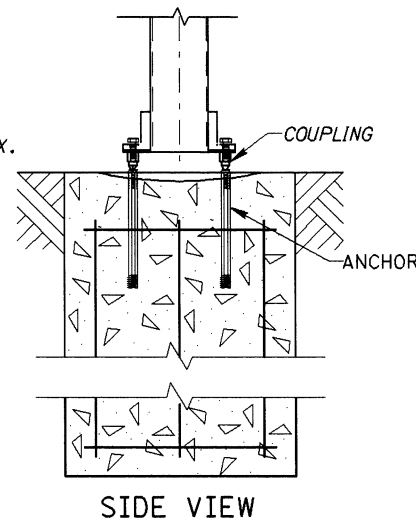
ASSEMBLE COUPLING ANCHORS ⑨ TO INSTALLATION TEMPLATE. ANCHOR TEMPLATES SHOULD BE DESIGNED SO THE ANCHORS ARE HELD SOLID AND LEVEL. A MINIMUM OF 1/4" INCH STEEL PLATE IS SUGGESTED. AN ACCURACY OF 1/16" INCH IS REQUIRED FOR DISTANCE BETWEEN ANCHOR BOLTS. LOWER ENTIRE ANCHOR ASSEMBLY INTO FRESH CONCRETE AND VIBRATE INTO POSITION SO THAT THE TOPS OF THE INDIVIDUAL ANCHORS ⑨ ARE FLUSH WITH THE FINISHED TOP SURFACE OF THE FOOTINGS. ALIGN TEMPLATE AND KEEP LEVEL UNTIL CONCRETE HAS SET.

COUPLING ASSEMBLY

SUSPEND POST OVER FOOTING AND INSERT SPECIAL BOLTS ⑤ THROUGH BRACKETS ①. BELOW BRACKET, THREAD COUPLINGS ⑥ ALL THE WAY ONTO SPECIAL BOLTS ⑤ BUT LEAVE LOOSE ENOUGH TO LINE UP WITH ANCHORS ⑨. LOWER POST WITH COUPLINGS ⑥ ONTO ANCHORS AND THREAD COUPLINGS ⑥ DOWN INTO ANCHORS ⑨. TIGHTEN. TIGHTEN SPECIAL BOLTS ⑤ WITH 1-1/16" WRENCH. NOTE: DO NOT PLACE TORQUE ACROSS NECKED DOWN PORTION OF COUPLING - WRENCH FLATS ARE PROVIDED ON EITHER SIDE FOR PROPER TIGHTENING. MAKE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES. IF POST IS NOT PLUMB, INSERT SHIMS ⑦ AND ⑧ BETWEEN COUPLINGS ⑥ AND ANCHORS ⑨. INSERT NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.



FRONT VIEW



SIDE VIEW

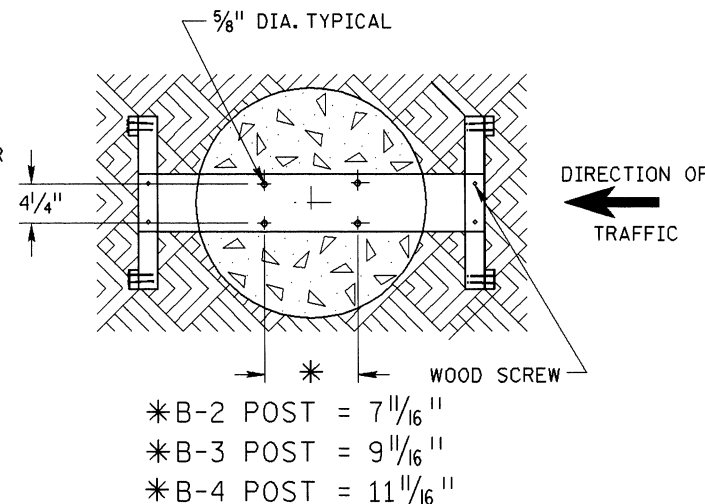
FOUNDATION NOTE:

CAST IN PLACE FOUNDATIONS IN AUGERED HOLES SHALL BE PLACED AGAINST NATURAL SOIL. IF AUGERED HOLES ARE NOT POSSIBLE, EXCAVATION FOR FOUNDATIONS CAN BE DONE IF ALLOWED BY THE ENGINEER. WHEN FORMS (INCLUDING PAPER TUBES) ARE USED, BACKFILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 210 - STRUCTURE EXCAVATION AND COMPACTING BACKFILL - OF THE IDAHO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

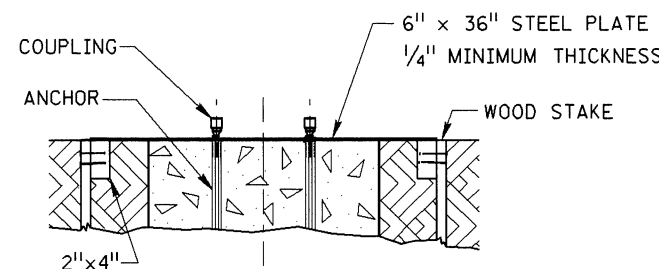
MATERIAL QUANTITIES

CONCRETE	0.6 CU. YDS.
6 VERT. RODS	26 LN. FT.
4 HOOPS	20.85 LN. FT.

TYPE A FOUNDATIONS



- *B-2 POST = 7 11/16"
- *B-3 POST = 9 11/16"
- *B-4 POST = 11 11/16"



TYPICAL ANCHOR TEMPLATE
FOR TYPE B POSTS

REVISIONS									
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY	NO.
1	04-94	HEB							
2	08-96	HEB							
3	07-98	HEB							
4	12-99	HEB							

SCALES SHOWN ARE
FOR 11" x 17"
PRINTS ONLY

CADD FILE NAME
18d21299.std
DRAWING DATE:
APRIL, 1992

IDAHO
TRANSPORTATION
DEPARTMENT

BOISE, IDAHO



Assistant Chief Engineer (DEVELOPMENT)
Chief Engineer

STANDARD DRAWING
BREAKAWAY SIGN POST
INSTALLATION
TYPE B-2, B-3, & B-4
REQUIRES STD. DWG. I-8-D-3

STANDARD DRAWING NO.
I-8-D-2
SHEET 1 OF 1

